

Day 2: 03 December 2024, Tuesday						
Time	Melati Jr 4011	Melati Jr 4111	Orchid Jr 4211	Orchid Jr 4212	Orchid Jr 4311	Orchid Jr 4312
0800 - 1600	Registration					
	T-1-1 AI in Sensors	T-2-1 Electronics 4	T-3-1 Information 4	T-4-1 Emerging Topics 4	T-5-1 Power and Energy 1	T-6-1 Special Session on AI in Clinical Technologies: Present and Future 1
0900 - 0915	T-1-1.1 : 1571042002 Hydrowatch: An IoT-Based in Situ Sensor System for Remote Water Quality Monitoring With Chlorophyll-a and Phosphate Concentration Measurement Capabilities	T-2-1.1 : 1571034332 Kalasag: Development of Smartfoam for an Amis Electronic Scoring System	T-3-1.1 : 1571047102 Analyzing the Accuracy of Mapping Paddy Rice Using Polarimetric Decomposition Parameters and Backscatter Intensity	T-4-1.1 : 1571034197 UF-PromptGAN: A Nighttime Flare Removal Network Using Learnable Prompts	T-5-1.1 : 1571050233 Design Optimization of PMASynRM Using Kriging Surrogate Modeling and NSGA-II Integrated With Taguchi Method	T-6-1.1 : 1571042067 Identifying Suitable Anatomical Planes in 3D MRI for AD Classification by Employing ViT Pipeline
0915 - 0930	T-1-1.2 : 1571060809 Enhancing the Performance and Reliability of IoT Systems Using Predictive Route Recovery Mechanism	T-2-1.2 : 1571033243 Low-Power Hamming Distance Detection Circuit Using Cross-Coupled Electronic Neuron	T-3-1.2 : 1571041881 Segmenting Growing and Dying Woody Roots in a Forest Using Deep Learning-Based Software	T-4-1.2 : 1571034977 EEG-Based 3D Input Convolutional Neural Network for Stress Detection During Arithmetic Task	T-5-1.2 : 1571034400 Multiplexed Model Predictive Control of Energy Storage Systems in Distribution Networks	T-6-1.2 : 1571041807 Improved Medical Image Captioning Using Vision Transformers and Graph Networks
0930 - 0945	T-1-1.3 : 1571046884 A Meta Surface Material Based Patch Antenna for Future Wireless Sensor Space Craft 5G Systems	T-2-1.3 : 1571033599 A TENG Finger Sensor Enabled Human-Machine Interface for VR Applications	T-3-1.3 : 1571041778 Score Calculation With Local and Global Features for Visual Place Recognition	T-4-1.3 : 1571050493 Large Language Models for Video Surveillance Applications	T-5-1.3 : 1571040172 Research on Ridge-Enhanced Flatted Grating Folded Waveguide SWS for G-Band TWT	T-6-1.3 : 1571050059 Effects of Movement Speed and Analysis Window Characteristics on Finger Movement Classifications: An EEG Study
0945 - 1000	T-1-1.4 : 1571034028 A Cognitive Approach for Transmit Waveform Generation for Active Phased Array Multifunction Radars	T-2-1.4 : 1571026755 Enhancing the Readout Speed of NP-H-CAM Using Clocked CMOS Inverters	T-3-1.4 : 1571033391 Historical Ice Velocity Mapping of Pine Island Glacier, West Antarctica, Using Landsat and KH-9 Hexagon Data	T-4-1.4 : 1571034018 Hamstring Muscle Activity Characterization Using IMU and sEMG Sensors During Leg Squats	T-5-1.4 : 1571037552 Blockchain-Enabled Game Theory Approach for Distributed Generation	T-6-1.4 : 1571050446 Transfer Learning for Dysphagia Detection
1000 - 1015	T-1-1.5 : 1571034352 Advancing EEG Analysis for Confusion Detection in Educational Settings Using BiLSTM Deep Learning Techniques	T-2-1.5 : 1571041254 Hydrogen Sensing Properties of the Pt Caped Ag Doped Gallium Oxide Nanomaterials	T-3-1.5 : 1571042077 Numerical Analysis of the Thermal Properties of Beeswax Based Phase Change Materials for Thermal Energy Storage Applications	T-4-1.5 : 1571028734 Cell-Stitching for Analog Neuromorphic Computing	T-5-1.5 : 1571051264 Adaptive Stator Resistance Estimation for Sensorless Direct Torque Control of Synchronous Reluctance Motors With MTPA	T-6-1.5 : 1571048574 Pain Screening in Orthopedics Using Machine Learning
1015 - 1030	T-2-1.5 : 1571041430 Failure Mode Classification of Wind Turbine Gearbox Utilizing Machine Learning Algorithms	T-3-1.6 : 1571042035 Walkable Southeast Asia: A Comparative Study Between Phnom Penh and Ho Chi Minh City	T-4-1.6 : 1571033968 Identification of Tokyo Disney Resort Heavy Users on Twitter	T-5-1.6 : 1571050604 Control of Transient Touch Voltages During Switching	T-6-1.6 : 1571032414 A Source-Drain Engineering Di-Electrically Modulated Double Gate TFET Based Label-Free Biosensor	
1030 - 1100	Tea Break (Orchid Main Ballroom, Level 4)					
	T-1-2 Communications 3	T-2-2 Electronics 5	T-3-2 Information 5	T-4-2 Emerging Topics 5	T-5-2 Power and Energy 2	T-6-2 Special Session on AI in Clinical Technologies: Present and Future 2
1100 - 1115	T-1-2.1 : 1571034263 Identification of DDoS Attacks Through SHAP-Based Feature Analysis and Transformer Models: A Multivariate Time Series Data Approach	T-2-2.1 : 1571034631 Emission Gating of Sheet Electron Beam for High-Power Gridless Inductive Output Tube	T-3-2.1 : 1571039815 Identifying Nephrotoxicity of Small Molecules Using Machine Learning	T-4-2.1 : 1571041701 Self-Learning Robot Manipulator Controller Using Reinforcement Learning	T-5-2.1 : 1571029491 Optimization of Deactivation Time in Synthetic Inertia Control of Wind Turbine Using System Frequency Model Including Rotor Dynamics	T-6-2.1 : 1571041262 Neural Hierarchical Interpolation for Glucose Time Series Forecasting in Artificial Pancreas With Integration of Physical Activity
1115 - 1130	T-1-2.2 : 1571050241 DNN-Based Speech Re-Reverb for VR Rooms	T-2-2.2 : 1571058043 Quasi-Reflectionless BPF and BSF for ISM Band With Enhanced Out-Of-Band Characteristics	T-3-2.2 : 1571039244 Comparative Analysis of Oversampling Techniques and Deep Learning for Imbalanced Tabular Data	T-4-2.2 : 1571034678 ML-Based Classification of Hamstring Strain Injury From Nonlinear Features of Surface Electromyography Signals	T-5-2.2 : 1571049610 Criteria Setting of Earthfault Relay Coordination for Bhutan Substation Considering the Interconnected Indian Grid Influence	T-6-2.2 : 1571041990 2D Ultrasound to 3D CT Image Registration for Liver Ablation Surgery
1130 - 1145	T-1-2.3 : 1571049667 Detection of Neurological Disorders Using Advanced AI Techniques	T-2-2.3 : 1571034688 Mitigating Drift in Extraction of Joint Angle Measurements From Inertial Measurement Unit (IMU) Data	T-3-2.3 : 1571041756 Detection of Esophageal Wall via Deep Learning-Based Object Detection With Ultrasound System	T-4-2.3 : 1571034592 Mitigation of Noise on Surface Electromyography (sEMG) Signals Through Signal Filtering Algorithms	T-5-2.3 : 1571041986 Detection of Series Arc Faults in Photovoltaic System Based on Wavelet Filter Evaluation	T-6-2.3 : 1571050261 Advancing Early Detection of Congestive Heart Failure Using BiLSTM Networks: A Robust Clinical Framework
1145 - 1200	T-1-2.4 : 1571056218 Quantum Key Distribution Optimization: Reducing Communication Overhead in Post-Processing Steps	T-2-2.4 : 1571035768 Generative Pixelated Microstrip Millimeter-Wave Circuit Components Design	T-3-2.4 : 1571034043 Guided Machine Learning for Mobile User Interface Design Through HCI Principles	T-4-2.4 : 1571041260 Design and Development of IoT-Enabled Semi-Autonomous Medicine Dispensing Mobile Robot With Obstacle-Detection Capabilities	T-5-2.4 : 1571049614 Fault Location, Isolation and Service Restoration Through Advanced Distribution Management System	T-6-2.4 : 1571042070 DiNOv2 Distilled ViT Model With Focal Loss for Justified Referral Glaucoma Screening
1200 - 1215	T-1-2.5 : 1571034367 Design of an RFID-Based Smart Queueing System Integrated With Computer Vision Utilizing Dynamic Source Routing Algorithm	T-2-2.5 : 1571050648 Parametric Study of the Microstrip U-Slot Patch Antenna for Concrete Strength Monitoring	T-3-2.5 : 1571050454 A Novel Approach to Generative AI Translation	T-4-2.5 : 1571034560 Design of Control System for Adult Ventilator	T-5-2.5 : 1571050486 An Intelligent Fault Detection Scheme for AC Microgrid: Based on Multilayer Perceptron	T-6-2.5 : 1571050505 Skin Disease Detection With Deep Learning
1215 - 1230	T-1-2.6 : 1571033755 Enhancing Address Information Legitimacy in MANET With Blockchain	T-2-2.6 : 1571041446 W-Band Backward Wave Oscillator Utilizing a Diverging Radial Sheet Electron Beam	T-3-2.6 : 1571038346 Enhancing the Forecasting Performance With the Hybrid Machine Learning Techniques for Online Shopping Channels: A Case Study of Electronic Products in Thailand	T-4-2.6 : 1571034406 Safe and Trustworthy AI Framework (STAIF): Addressing Uncertainty in AI-Based Models for Real-World Deployment	T-5-2.6 : 1571050853 Assessment Mapping Strategies for Competency-Based Computing Education	T-6-2.6 : 1571033241 A Novel Non-Invasive Cuff-Less Method for Continuous Blood Pressure Estimation Using Machine Learning and Photoplethysmography
1230 - 1400	Lunch, Exhibition & Interactive Forum II (Orchid Main Ballroom, Level 4)					
		T-2-3 Electronics 6	T-3-3 Information 6	T-4-3 Emerging Topics 6	T-5-3 Power and Energy 3	T-6-3 Communication Networks 1
1400 - 1415		T-2-3.1 : 1571033387 Stixu: An Open-Source Idea for Planning Integrated Circuit Layouts Efficiently	T-3-3.1 : 1571034415 The What, So What, and What Now of the AI Landscape in Emerging Economies	T-4-3.1 : 1571041457 Medical Image Encryption With Fractional Discrete Cosine Transform, Arnold Transform and AES	T-5-3.1 : 1571048424 Optimal Dispatch for Large-Scale Renewable Energy Bases Without Conventional Power Support	T-6-3.1 : 1571050502 RuralCasting - A Non-Internet Based Distribution System for Digital Resources in the Philippines
1415 - 1430		T-2-3.2 : 1571047435 CMOS Design of Reconfigurable Data-Panning Algorithm Based Sorter for 8-Input, 8-Bit Digital Data Using the 0.35um Library	T-3-3.1 : 1571034375 A Hue Preserving Image Enhancement Based on Multiple Parametric Sigmoid Functions in Each RGB Component	T-4-3.2 : 1571034142 Enhanced Feature Detection in Non-Proliferative Diabetic Retinopathy via RGB Channel Separation	T-5-3.2 : 1571039833 Similarity-Based Label Propagation for Electric Vehicle Network Representation Learning	T-6-3.2 : 1571034385 Efficient Routing for QKD Network Using Novel Quantum Optimization Approach
1430 - 1445		T-2-3.3 : 1571048403 Printed Circuit Board Defect Detection Using YOLOv8s and TensorRT	T-3-3.2 : 1571034317 Lightness and Saturation Modification in RGB Color Space for Dichromats	T-4-3.3 : 1571044350 Lot Quality Prediction in Semiconductor Manufacturing Final Test Using Multilayer Perceptron	T-5-3.3 : 1571042260 Simulation and Analysis of a Rain-Powered Pelton Turbine	T-6-3.3 : 1571040496 Building Touch-Less Trust in IoT Devices
1445 - 1500		T-2-3.4 : 1571041871 Dual Mode Output Capacitorless Low Dropout With Low Quiescent Current for Hearing Aid Applications	T-3-3.3 : 1571032652 Empirical Wavelet Transform for Image Fusion: Elevating Visual and Structural Quality	T-4-3.4 : 1571038188 Indoor Navigation Glasses for the Visually Impaired With Deep Learning and Audio Guidance Using Google Coral Edge TPU	T-5-3.4 : 1571041647 Transfer Learning-Based State of Health Estimation for Lithium-Ion Battery at Varying Temperatures	T-6-3.4 : 1571056215 Privacy-Preserving Password-Based Authentication Using Zero-Knowledge Proofs
1500 - 1515		T-2-3.5 : 1571051845 A 9.94dBm IIP3 Inductorless Differential Low Noise Amplifier for Geofencing Applications	T-3-3.4 : 1571033952 Deep Learning for Automatic Classification of Carotenoid Associated Color Pigmentation	T-4-3.5 : 1571041934 Understanding the Effects of Naturalistic Music Listening in Brain Circuit Dynamics Using Neural Manifold Learning in Patients With Alzheimer's	T-5-3.5 : 1571042226 Effect of Gap Variation on DC Series Arcing Characteristics in PV Farms Using Fast Fourier Transform Method	T-6-3.5 : 1571041741 Enhancing Train Transportation in Sri Lanka: A Smart IOT Based Multi-Subsystem Approach Using MQTT
1515 - 1530		T-2-3.6 : 1571057918 Optimizing Multithreaded Access to Global Variables in SPM Through Compiler-Enhanced Dependency Analysis	T-3-3.6 : 1571041873 Cyber Threat Analysis Through Densefied Causal Knowledge Graph Approach for Multivariable Processes	T-4-3.6 : 1571027045 Deadtime Compensation-Based Approximate Decoupling Control Approach for Multivariable Processes	T-5-3.6 : 1571050386 LSTM Based Forecasting of Power Consumption	T-6-3.6 : 1571057289 Time Efficiency of BATS Coding on Wireless Relay Network With Overhearing
1530 - 1600	Tea Break (Orchid Main Ballroom, Level 4)					
		T-2-4 AI in Healthcare	T-3-4 Information 7	T-4-4 Emerging Topics 7	T-5-4 Power and Energy 4	T-6-4 AI in Signal Processing 1
1600 - 1615		T-2-4.1 : 1571040984 HAR-CLET: A Novel Conv-LSTM With Extra Tree Classifier for Human Activity Recognition	T-3-4.1 : 1571041950 Development of a Pupillary Plant Model for Investigating the Effects of Range Nonlinearity on Pupil Size Variability Signal	T-4-4.1 : 1571032362 Real-Time AI-Driven People Tracking and Counting Using Overhead Cameras	T-5-4.1 : 1571034538 Prototype Development of a Multilevel Solar Dryer for Agriculture	T-6-4.1 : 1571050813 Wi-Con: Wi-Fi Channel State Information for Sensing in Confined Environments
1615 - 1630		T-2-4.2 : 1571043346 Adaptive Spectral Correlation Convolutional Neural Network for EEG-Based Emotion Recognition: A Study on the SEED Dataset	T-3-4.2 : 1571034502 State Estimation of Nonlinear Oscillatory Chaotic System: Application to Aircraft Wing Rock Using Cubature Particle Filtering	T-4-4.2 : 1571041355 SENYAS: A Filipino Sign Language Recognition System Using MediaPipe and CNN-LSTM	T-5-4.2 : 1571056873 Machine Learning Based Control of Integrated Drive and Charge Mode Bi-Modular Power Converter for PV Assisted Light Electric Vehicle	T-6-4.2 : 1571049113 Custom ANN: An Approach for Efficient Modulation Classification
1630 - 1645		T-2-4.3 : 1571049668 ConvKAN: A Convolutional KAN for Brain Tumor MRI Classification	T-3-4.3 : 1571041938 A Novel Select Method Based on the Sparseness as Acquiring Appropriate Data for the Data Interpolation of Accelerated Nuclear Magnetic Resonance Spectroscopy	T-4-4.3 : 1571050513 Detecting Eggs of Invasive Apple Snails on Rice Fields Using YOLOv8 Algorithm	T-5-4.3 : 1571029342 Hybrid Digital Twin-P&O Photovoltaic Controller for Partial Shading Conditions	T-6-4.3 : 1571045953 Performance Evaluation of Domain Isolation Algorithm Using Mininet-WiFi
1645 - 1700		T-2-4.4 : 1571042433 A Machine Learning Approach for Automated Classification of Skin Fungal Infections	T-3-4.4 : 1571041637 A Cebuano Parts-of-Speech(POS) Tagger Using Hidden Markov Model(HMM) Applied to News Text Genre	T-4-4.4 : 1571035580 Ethical and Critical AI-Assisted Conversations in Writing Literature Reviews	T-5-4.4 : 1571038091 Managing Interconnection of Electricity Generation, Transmission and Distribution: A Dynamic Collaborative Solution	T-6-4.4 : 1571057414 Packet Aggregation May Harm Batched Network Coding
1700 - 1715		T-2-4.5 : 1571057914 Knee Joint Health Care Monitoring System Using AI - Classification Approach	T-3-4.5 : 1571034669 Tunable 1st Order IIR Phase Shifter Design and Implementation	T-4-4.5 : 1571042675 An Open Framework for Smart Retrofitting of Legacy Industrial Machines Towards Industry 4.0	T-5-4.5 : 1571050683 Implementing Agrivoltaics in Suburban Small Farms: A Solar Tree Prototype	T-6-4.5 : 1571033683 Novel Estimation Problems in Non-Gaussian Noise Models: Maximum Likelihood Approach
1715 - 1730		T-2-4.6 : 1571041927 Symbiotic Insights Prediction on a Multi-Cooperative Modular Mobile Robot Using Machine Learning	T-3-4.6 : 1571063182 A Multi-Modal AI Inspection System for Laser Labels	T-4-4.6 : 1571034679 Non- Contact Measurement of Temperature Using RGB Facial Images	T-5-4.6 : 1571042121 Maximizing Output Power of a PV Array Under Non-Uniform Solar Irradiation Conditions	T-6-4.6 : 1571034539 Filipino Sign Language Recognition Using Wi-Fi Channel State Information
1900 - 2200	Conference Dinner (Melati Main Ballroom, Level 4)					

Session	Interactive Forum Presentation - II
Date/Time	Tuesday, the 3rd December 2024 /12.30-2.00pm
Venue	Orchid Main Ballroom Level 4
Poster ID	Paper ID/Title
T-P.01	1571041743: A Reinforcement Learning Based Model to Maximize QoS and Revenues of Network Slices in Software Defined Networks
T-P.02	1571054712: AESRM-Automatic English Sign Language Recognition With Machine Learning Techniques
T-P.03	1571041650: AI Based Fish Feed Distributor
T-P.04	1571057587: An Open-Source RAG Architecture for LLMs
T-P.05	1571041736: Analysis of the Creaky Nature of Asthmatic Speakers Voice in Sustained Phonation
T-P.06	1571029377: Artificial Intelligence (AI) in Augmented Reality (AR), Virtual Reality (VR) and Mixed Reality (MR) Experiences: Enhancing Immersion and Interaction for User Experiences
T-P.07	1571034754: Artificial Intelligence to Expedite Thermal Index Testing and Accelerate Polymer Regulatory Approvals
T-P.08	1571049303: Asian Currency Identification and Recognition Using Lightweight Convolutional Neural Network
T-P.09	1571041895: Baybayin Translation Using Lucas-Kanade Optical Flow and RNN
T-P.10	1571041917: Characterizing the Effects of Different Music Genres in Brain Circuit Dynamics of Patients With Depression Using Neural Manifold Learning
T-P.11	1571050475: Classification Precision in Endodontic Imaging: Advanced Deep Learning With Adaptive Squeeze-And-Excitation in Enhanced VGG-19 and Feature Pyramid Network
T-P.12	1571041765: Combatting Disinformation and Deepfake: Interdisciplinary Insights and Global Strategies
T-P.13	1571042068: Convolutional Neural Network Based Broadcast News Summarization Using Acoustic-Prosodic Features
T-P.14	1571040159: Deep Explainable Ensemble for Medical Image Analysis
T-P.15	1571049686: Deep Learning-Based Refreshable Braille Display for Learning Braille Fundamentals
T-P.16	1571046452: Real-Time Path Hole Detection for Motorcycle Driver Safety Assistance Using Faster Object More Object (FOMO) Algorithm
T-P.17	1571050028: Detection and Classification of Invasive Tree Seeds in the Philippines Using YOLOv8
T-P.18	1571041859: Development of a Solid Waste Identification and Segregation Hub (SWISH) System With CNN
T-P.19	1571047816: Enhanced Black-Scholes Option Pricing: Bit-Width Optimization With Automatic Differentiation and Lagrange Multipliers
T-P.20	1571049057: Evaluating Hyperparameter Optimization for Machinery Anomalous Sound Detection
T-P.21	1571035566: Federated Byzantine Agreement-Inspired Blockchain Protocol for Swarm Robotics
T-P.22	1571037501: Fine-Tuning YOLOv8 for Enhanced Accuracy in Marine Environments
T-P.23	1571034580: GestuLearn: Hand Tracking and Gesture Recognition Technology for Assistive Teaching in Special Education
T-P.24	1571041902: Leveraging Large Language Models and RAPIDS AI to Detect Fraudulent AI-Generated Marketplace Reviews
T-P.25	1571034465: NOMA Pilot Based Channel Estimation for 6G CF-mMIMO Communication System
T-P.26	1571052393: Pedestrian Tracking Efficiency Through Evaluation of Various Optical Flow Algorithms
T-P.27	1571041970: Performance Analysis of Selected Swarm-Based Robot Search Algorithms for Target Tracking
T-P.28	1571042174: Can Optical Shading in Solar Concentrator Be Improved With Total Internal Reflection?
T-P.29	1571093627: Evaluating Blockchain Platforms Using an Integrated Multi-Criteria Decision-Making Approach: AHP and TOPSIS Methods
T-P.30	1571093632: Optimal Selection of Machine Learning as a Service (MLaaS) Using a Hybrid Multi-Criteria Decision-Making Approach: Integrating Entropy Weight and VIKOR Methods
T-P.31	1571054857: Detection of Oral Diseases on Fluorescence Images Obtained Under Blue Light Irradiation"
T-P.32	1571049291: Research on the Electromagnetic Interference of the Balise System of High-Speed Train
T-P.33	1571056948: PUP UniChain: A Blockchain-Based University Events Access Management System for Polytechnic University of the Philippines
T-P.34	1571038348: High Speed Small Item Production Line Tracking Using Computer Vision and Cloud Computing
T-P.35	1571041924 : Performance Evaluation of a 3D Printed Rainwater Energy Harvester for Household Application
T-P.36	1571034037 : Study of Quasi-Z-Source Three-Phase Four-Switch Matrix Converter Under Unbalanced Input